

28 June 1984

MEMORANDUM FOR: CSD/OC

SUBJECT : Revisions/Expansion of the Interface Control Document
for PRIM Release 2

The following areas have been revised or deleted from the ICD:

- Change front page to reflect new ODP organization
- 1.1 Remove reference to Release 2
- 1.4 Change reference to Office of Personnel
Configuration Control Board to Configuration
Control Board and reflect new organizations.
- Chapter 3 DATA INTERFACE - HRS2 to PRIM remove
reference to Release 2
- 3.1.1 2nd para, 2nd sentence add 'be used to'
3rd para, add reference to PRCHGLOAD, PRIM
PERSIGN and PRIMSEP
3rd para, add the sentence 'The 'ZZ' action
will be'
3rd para, delete the sentence 'In addition, the
HRS2.....'
- 3.1.3 Change reference to validation dictionaries being
moved nightly to weekly
- 3.2 Release 2 remove completely
- 3.3 Release 3 remove 'in 1983'
- 3.4 Release 5 change reference to CAPER to IAPS
- 3.4.1 Change reference to CAPER to IAPS.

PRIM TEAM

U N C L A S S I F I E D

Personnel Resource Information Management
(PRIM)

Interface Control Document
(ICD-C20-1C)

by

PRIM Project Team

ODP/MISG/ISD
OP/ID/ADRB

28 June 1984

U N C L A S S I F I E D

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Chapter 1

INTRODUCTION

1.1 PURPOSE

The purpose of this Interface Control Document (ICD) is to define the interface between the Human Resources System (HRS2 Data Base) and the Personnel Resource Information Management (PRIM) System. This document will describe all data received from the HRS System, as well as hardware interfaces, and communication facilities required to move this data. Due to the complexity of the PRIM System, it is being designed in a phased approach, consisting of five releases. The ICD will address only Releases 1, 3, and 5; these are the only Releases that consist of data received from an external system.

1.2 SCOPE

During the Definition Phase this document outlines the requirement, purpose, schedule and method of data transfer between HRS2 and PRIM. Details of data transfer interfaces and verification testing will also be discussed. During the Preliminary System Design Phase this document will be expanded to include the data descriptions and data characteristics of the data exchanged. During the Detailed System Design Phase this document will be expanded to include the data contents, data rules, and data organization of the data exchanged.

This ICD consists of five chapters:

Chapter 1 - 'Introduction' presents the purpose and scope of the PRIM Interface Control Document and all references applicable to the contents of the Interface Control Document. The Document Control section identifies the organizations responsible for publication and maintenance of the document.

Chapter 2 - 'Data Interfaces - PRIM to HRS2' is not applicable at this time.

Chapter 3 - 'Data Interface - HRS2 to PRIM' presents the Requirement for the data interface, the Purpose for the data interface, and the Schedule and Method of Transfer of the data.

Chapter 4 - 'Data Transfer Interfaces' states the mode of data transfer and defines the backup and recovery procedures.

Chapter 5 - 'Verification' defines the Unit testing and Interface testing and the Organization/Systems responsible for performing this testing.

1.3 REFERENCES

The PRIM Project Team is utilizing a number of documents, publications and other reference material listed in Table 1 below.

TABLE 1	
Documents, Publications and Reference Material	
1.	ODP Applications Documentation Standards
2.	PRIM System Development Plan
3.	PRIM Detailed System Requirements Document
4.	PRIM Data Requirements Document

1.4 DOCUMENT CONTROL

| During the development of the PRIM System all changes to the baselined Interface Control Document (ICD), will be submitted to the Configuration Control Board for PRIM. Changes approved by the CCB will be incorporated into the ICD by the Development Branch (DB) in the Information Systems Division (ISD) of MISG.

| During operational phases of PRIM changes to this document will be controlled by the Configuration Control Board in the Information Support Branch in the Information Systems Division (ISD) of MISG.

Chapter 2

DATA INTERFACE - PRIM TO HRS2 (DEVELOPMENT SYSTEM TO EXTERNAL SYSTEM)

At the present time there are no plans to transfer data from PRIM to the HRS2 Data Base.

Chapter 3

DATA INTERFACE - HRS2 TO PRIM (EXTERNAL SYSTEM TO DEVELOPMENT SYSTEM)

Chapter 3 presents the requirement, purpose, and schedule and method of transfer of data from the HRS2 Data Base to the PRIM Data Base. Due to the complexity of the PRIM System, it is being designed in a phased approach, consisting of five releases. Chapter 3 will address only Releases 1, 3, and 5; these are the only Releases that consist of data received from an external system.

3.1 RELEASE 1

Release 1 of the PRIM System requires the following data lists be transferred from the HRS2 Data Base to PRIM: NAME, PERSIGN, INTERFACE, QUAL(Active), HPOSNR, LREQID, ORGCODE, POSNR, STRENGTH, and supporting COMVAD validation dictionaries. A new data list (PRIFN) will be established on HRS2 and PRIM to guarantee that dumps and loads are performed in the same sequential order. In order to keep PRIM's controlled component access accurate and to keep components apprised of selected changes, the HRS2 INTERFACE Data List must be extracted and loaded to PRIM.

3.1.1 PURPOSE

The purpose of Release 1 of the HRS2/PRIM Interface is to provide the most frequently requested official personnel data resident on the HRS2 Data Base. This interface will also include supporting files. After data is moved from HRS2 to PRIM, components will have the capability to query official data as well as produce online and offline reports.

An interface is required with the HRS2 Data Base to acquire data from HRS2's INTERFACE Data List. The INTERFACE Data List contains data which will be used to update the PRIM security matrix used by components to retrieve data from the PRIM Data Base.

An extract will be used to pull the necessary data from the HRS2 INTERFACE Data List resident on the HRS2 Data Base. The PRCHGLOAD procedure will then scan the INTERFACE data for SSN changes, 'ZZ' 'RE', and 'SD' actions or any action changing Service Designation or ORGCODE and make the necessary updates to PRIM PERSIGN or PRIMSEP. The 'ZZ' action will be identified by the procedure, but handled manually by the PRIM Data Base Manager. The INTERFACE data will then be added to a PRIM INTERFACE file for retrieval by components.

3.1.2 SCHEDULE AND METHOD OF TRANSFER

A total of ten (10) HRS2 data lists as well as supporting validation dictionaries will be transferred to PRIM in Release 1 to establish the PRIM Data Base. Thereafter these selected files and selected data from the HRS2 INTERFACE Data List will be transferred to PRIM after the nightly update of the HRS2 Data Base. The DDUMP/LOGICAL and RESTORE/LOGICAL software facilities are currently planned for this transfer. The HRS2 INTERFACE Data List will be extracted and loaded into PRIM via a GIMS procedure.

3.1.3 DATA

| Release 1 of the PRIM System will require the following data lists to
| be moved nightly from the HRS2 Data Base. The validation dictionaries
| will be moved weekly. See Chapter 3, Data Specification Document and
| below for further descriptions.

PERSIGN	A/N	Data File
QUAL(Active)	A/N	Data File
HPOSNR	A/N	Data File
LREQID	A/N	Data File
NAME	A/N	Data File
ORGCODE	A/N	Data File
POSNR	A/N	Data File
STRENGTH	A/N	Data File
INTERFACE	A/N	Data File
PRIFN	A	Data File
COMVAD	A/N	Edit & Validation Dictionaries

3.1.4 DATA CHARACTERISTICS

PERSIGN

Data Name	- Personnel Assignment and Status Data
System Generated By	- HRS2
System Used By	- PRIM
Contents	- Current Personnel Assignment and Status.
Number of Times Generated	- Nightly
Data Organization	- Sequential
Logical Record Format	- Fixed Block
Logical Record Size	- 409

QUAL(Active)

Data Name	- Central Qualification System
System Generated By	- HRS2
System Used By	- PRIM
Contents	- Active Central Qualification

Data on active and some
former Agency personnel.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 287

HPOSNR

Data Name - Position History
System Generated By - HRS2
System Used By - PRIM
Contents - All deleted Position Records
in the Agency since August 1974.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 105

LREQID

Data Name - Language Requirements
System Generated By - HRS2
System Used By - PRIM
Contents - All valid Organization Units
with Language Requirements in
the Agency.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 77

NAME

Data Name - Name
System Generated By - HRS2
System Used By - PRIM
Contents - A cross-reference from the
last and first name to the
Individual's Identifying
number.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 70

ORGCODE

Data Name - Organizations
System Generated By - HRS2
System Used By - PRIM
Contents - All valid and current organiza-
tion codes within the hierarchial
structures of the Agency.

Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 87

POSNR

Data Name - Position Number
System Generated By - HRS2
System Used By - PRIM
Contents - All valid and current positions in the Agency.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 212

STRENGTH

Data Name - Personnel Strength Matrix
System Generated By - HRS2
System Used By - PRIM
Contents - All active employees are accounted for except second records which have a ceiling code of 'S'.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 55

INTERFACE

Data Name - Interface for PERSIGN Data
System Generated By - HRS2
System Used By - PRIM
Contents - PERSIGN transactions for all Staff, Contract, FBIS, Consultants and Independent Contractor personnel.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 576

PRIFN

Data Name - PRIM Interface File Name
System Generated By - HRS2
System Used By - PRIM
Contents - List of files to be included in the HRS2/PRIM Interface. List is in the order of the

Dump and Load.
Number of Times Generated - Nightly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 12

COMVAD

Data Name - Edit and Validation Data
System Generated By - HRS2
System Used By - PRIM
Contents - All data used for Edit checks
and Validation of Data.
Number of Times Generated - Weekly
Data Organization - Sequential
Logical Record Format - Fixed Block
Logical Record Size - 385 (TBR)

3.2 THIS SECTION DELETED

3.3 RELEASE 3

Release 3 involves the transfer to PRIM of additional requested HRS2 data resident in the following HRS projects: CEMLOC, CIARDS, CTP, PERFIT, PERSEAS, CENQUAL(QUACOM), TRAIN, and supporting COMVAD dictionaries if not previously transferred. CEMLOC is scheduled to be made part of the HRS2 Data Base. A requirement to move all TRAIN data to an online data base (i.e. HRS2 or PRIM) is to be resolved.(TBR)

3.3.1 PURPOSE

The purpose of Release 3 is to provide the PRIM Data Base with the remaining HRS2 data requested for transfer by the components. This will give components additional personnel and training information with which to plan future personnel assignments.

3.3.2 SCHEDULE AND METHODS OF TRANSFER

A total of eleven (11) data files (CEMLOC, LOCLNAME, CRDMAST, CRHHIST, CTP, FRCALLUP, FRHISTORY, OSINDEX, OSHIST, QUACOM, and TRAIN) and supporting COMVAD dictionaries (if not previously transferred) will be transferred from the HRS2 Data Base to PRIM in Release 3. The DDUMP LOGICAL/RESTORE LOGICAL software facilities used in previous releases will be expanded to include Release 3 data. At this point all HRS2

data lists and COMVAD dictionaries referred to in Releases 1 and 3 will be loaded to PRIM after the nightly update of the HRS2 Data Base.

3.4 RELEASE 5

A requirement exists for PRIM to provide the capability to monitor and more effectively control and report on pre-employment processing from initial contact or resume to EOD. If the IAPS System is made a part of the HRS2 Data Base, IAPS data will be transferred to PRIM.

3.4.1 PURPOSE

The purpose of Release 5 is to provide the PRIM Data Base with IAPS data. The components will use this data in recruitment planning, projecting and special purpose research projects.

3.4.2 SCHEDULE AND METHODS OF TRANSFER

A minimum of two (2) data files and an undetermined number of supporting translate dictionaries will be transferred from the HRS2 Data Base to PRIM in Release 5. The number of supporting translate dictionaries is to be resolved. (TBR) The DDUMP LOGICAL/RESTORE LOGICAL software facilities used in previous Releases will be expanded to include Release 5 data.

Chapter 4

DATA TRANSFER INTERFACES

It is currently planned to use DDUMP LOGICAL/RESTORE LOGICAL software facilities to transfer data from the HRS2 System to the PRIM System. Selected HRS2 files will be dumped to magnetic tape/disk pack and then loaded to the PRIM Data Base. An alternative method would be used if deemed more efficient.

A daily data base statistical report is required for the PRIM Data Base Manager. This report should be similar to the current GIMS II Data Base Statistics Report for the HRS2 Data Base. The HRS2/PRIM interface cannot be done until after the HRS2 nightly update has been completed. After this update is completed, each data list loaded to the PRIM System must be in sync with the corresponding data list in the HRS2 Data Base. At the beginning of each business day, the PRIM Data Base Manager will compare the HRS2 and the PRIM Daily Data Base Statistical Reports to confirm that the two data bases are correct.

In the event of failure in the HRS2/PRIM interface, the Data Base Manager, in coordination with ODP, will determine which predefined action should be initiated to correct the interface problem.

Chapter 5

VERIFICATION

5.1 UNIT TESTING

Unit testing is the responsibility of the PRIM development team. Major or necessary test results will be documented and retained as part of the PRIM project documentation.

Unit testing is defined to include:

1. Proving accuracy of computations.
2. Showing repeatability of results.
3. Testing all ranges of data values.
4. Thoroughly exercising every routine of every module and function within each program used in the interface.
5. Verify proper transmission of data between routines, modules, and programs.

PRIM will be developed and tested according to the following procedures:

1. ODP will use a development data base to test GIMS procedures, dictionaries, and menus.
2. Tested modules will be copied to the PRIM Development Data Base either by DBCC or Applications personnel for OP Acceptance Testing.
3. Once OP has completed their Acceptance Testing, the modules will be moved by DBCC to the PRIM Data Base where they will be available to the users in a production mode.

5.2 INTERFACE TESTING

Interface testing will be conducted between the HRS Data Base and the PRIM Development Data Base. These tests will verify the communication interface between the systems and the accuracy of the data transferred. Planning, coordinating, scheduling, and conducting these tests will be the responsibility of the PRIM project personnel supported by the customer as required.

It is important that a good communication link be established between the Data Base Managers and the Primary Applications Specialists (PAS) for the HRS2 Data Base and the PRIM Data Base. This link will guarantee that dictionary changes made to data lists in the HRS2 Data

Base and affected by the HRS2/PRIM interface are simultaneously incorporated in the PRIM System.